

24.0 REFERENCES

16 CFR 150.135—US Consumer Product Safety Commission. Code of Federal Regulations. Title 16, Commercial Practices. Chapter II, Consumer Product Safety Commission. Part 1500—Hazardous substances and articles; administration and enforcement regulations. Subpart 135. Summary of guidelines for determining chronic toxicity.

40 CFR 79.63—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter C—Air Programs, Part 79, Registration of fuel and fuel additives, Subpart F—Testing Requirements for Registration, Section 79.63 Fertility assessment/teratology.

40 CFR 82.170—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter C—Air Programs, Part 82, Protection of stratospheric ozone, Subpart D—Significant New Alternatives Policy Program, Section 82.170 Purpose and scope.

40 CFR 132—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter D—Water Programs, Part 132, Water Quality Guidance for the Great Lakes System.

40 CFR 136—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter D—Water Programs, Part 199, Whole Effluent Toxicity: Guidelines Establishing Test Procedures for the Analysis of Pollutants.

40 CFR 158.202—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter E—Pesticide Programs, Part 158, Data Requirements for Registration, Subpart D—Data Requirement Tables, Section 158.202 Purposes of the registration data requirements.

40 CFR 158.340—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter E—Pesticide Programs, Part 158, Data Requirements for Registration, Subpart D—Data Requirement Tables, Section 158.340 Toxicology data requirements.

40 CFR 795.250—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter R—Toxic Substances Control Act, Part 795, Provisional Test Guidelines, Subpart D—Provisional Health Effects Guidelines, Section 795.250, Developmental neurotoxicity screen.

40 CFR 798.4350—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter R—Toxic Substances Control Act, Part 798, Health Effects Testing Guidelines, Subpart E—Specific Organ/Tissue Toxicity, Section 798.4350 Inhalation developmental toxicity study.

40 CFR 798.4700—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter R—Toxic Substances Control Act, Part 798, Health Effects Testing Guidelines, Subpart E—Specific Organ/Tissue Toxicity, Section 798.4700 Reproduction and fertility effects.

40 CFR 798.4900—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter R—Toxic Substances Control Act, Part 798, Health Effects Testing Guidelines, Subpart E—Specific Organ/Tissue Toxicity, Section 798.4900 Developmental toxicity study.

40 CFR 799.9370—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter R—Toxic Substances Control Act, Part 799, Identification of Specific Chemical Substance and Mixture Testing Requirements, Subpart H—Health Effects Test Guidelines, Section 799.9370 TSCA prenatal developmental toxicity.

40 CFR 799.9380—U.S. Environmental Protection Agency. Code of Federal Regulations. Title 40, Subchapter R—Toxic Substances Control Act, Part 799, Identification of Specific Chemical Substance and Mixture Testing Requirements, Subpart H—Health Effects Test Guidelines, Section 799.9380 TSCA reproduction and fertility effects.

ASTM (American Society for Testing and Materials). 1991. Standard Guide for Conducting the Frog Embryo Teratogenesis Assay—*Xenopus* (FETAX). ASTM E1439—91. In: Annual Book of ASTM Standards, Philadelphia.

ASTM (American Society for Testing and Materials). 1992. Standard Practice of Conducting an Interlaboratory Study to Determine the Precision of a Test Method. ASTM E691—92. In: Annual Book of ASTM Standards, Philadelphia.

ASTM (American Society for Testing and Materials). 1998. Standard Guide for Conducting the Frog Embryo Teratogenesis Assay—*Xenopus* (FETAX). ASTM E1439—98. In: Annual Book of ASTM Standards, Philadelphia.

Bantle, J.A. 1995. FETAX – A Developmental Toxicity Assay Using Frog Embryos. In: Fundamentals of Aquatic Toxicology, 2nd ed., G. M. Rand (Ed.), Taylor and Francis, Washington, D.C., pp. 207-230.

Bantle, J.A., D.J. Fort, and B.L. James. 1989. Identification of developmental toxicants using the Frog Embryo Teratogenesis Assay—*Xenopus* (FETAX). *Hydrobiologia* 188/189:577-585.

Bantle, J.A., D.J. Fort, J.R. Rayburn, D.J. DeYoung, and S.J. Bush. 1990. Further validation of FETAX: Evaluation of the developmental toxicity of five known mammalian teratogens and non-teratogens.

Bantle, J.A., D.T. Burton, D.A. Dawson, J.N. Dumont, R.A. Finch, D.J. Fort, G. Linder, J.R. Rayburn, D. Buchwalter, M.A. Maurice, and S.D. Turley. 1994a. Initial interlaboratory validation study of FETAX: Phase I testing. *J. Appl. Toxicol.* 14:213-223.

Bantle, J.A., D.T. Burton, D.A. Dawson, J.N. Dumont, R.A. Finch, D.J. Fort, G. Linder, J.R. Rayburn, D. Buchwalter, A.M. Gaudet-Hull, M.A. Maurice, and S.D. Turley. 1994b. FETAX interlaboratory validation study: Phase II testing. *Environ. Toxicol. Chem.* 13:1629-1637.

Bantle, J.A., R.A. Finch, D.T. Burton, D.J. Fort, D.A. Dawson, G. Linder, J.R. Rayburn, M. Hull, M. Kumsher-King, A. M. Gaudet-Hull, and S.D. Turley. 1996. FETAX interlaboratory validation study: Phase III, part 1 testing. *J. Appl. Toxicol.* 16:517-528.

Bantle, J.A., J.N. Dumont, R.A. Finch, G. Linder, and D.J. Fort. 1998. *Atlas of Abnormalities: A Guide for the Performance of FETAX*, 2nd ed.. Oklahoma State University Press, Stillwater, OK, 68 pp.

Bantle, J.A., R.A. Finch, D.J. Fort, E.L. Stover, M. Hull, M. Kumsher-King, and A.M. Gaudet-Hull. 1999. Phase III interlaboratory study of FETAX, Part 3—FETAX validation using 12 compounds with and without an exogenous metabolic activation system. *J. Appl. Toxicol.* 19(6):447-472.

Birge, W.J., and J.A. Black 1979. Effects of Copper on Embryonic and Juvenile Stages of Aquatic Animals. In: *Copper in the Environment, Pt II. Health Effects*, J.O. Nriagu (Ed.), Wiley, New York, pp. 373-399.

Birge, W. J., J.A. Black, A.G. Westerman, and J.E. Hudson 1979. Effects of Mercury on Reproduction of Fish and Amphibians. In: *The Biogeochemistry of Mercury in the Environment*. Elsevier/North-Holland Biomedical Press, J.O. Nriagu (Ed.), pp. 629-655

Brown, N.A. 1987. Teratogenicity testing in vitro: Status of validation studies. *Arch. Toxicol. Suppl.* 11:105.

Brown, N.A., H. Spielmann, R. Bechter, O.P. Flint, S.J. Freeman, R.J., Jelinek, E. Koch, H. Nau, D.R. Newall, A.K. Palmer, J.-Y Renault, M. Repetto, R. Vogel, and R. Wiger. 1995. Screening chemicals for reproductive toxicity: The current alternatives. The report and recommendations of an ECVAM/ETS workshop (ECVAM workshop 12). *ATLA* 23:868-882.

Bruner, M.A., M. Rao, J.N. Dumont, M. Hull, T. Jones, and J.A. Bantle. 1998. Ground and surface water developmental toxicity at a municipal landfill: Description and weather-related variation. *Ecotoxicol. Environ. Saf.* 39:215-226.

Budavari, S. (Ed.). 1996. *The Merck Index*, 12th ed. Merck & Co., Inc., Whitehouse Station, NJ.

Burkhart, J.G., J.C. Helgen, D.J. Fort, K. Gallagher, D. Bowers, T. L Propst, M. Gernes, J. Magner, M. D. Shelby, and G. Lucier. 1998. Induction of mortality and malformation in *Xenopus laevis* embryos by water sources associated with field frog deformities. Environ. Health Perspect. 106(12):841-848.

Ciccotelli, M., S. Crippa, and A. Colombo. 1998. Bioindicators for toxicity assessment of effluents from a wastewater treatment plant. Chemosphere 37(14-15):2823-2832.

Copp, A.J., F.A. Brook, P. Estibeiro, A.S.W. Shum, and D.L. Cockcroft. 1990. The embryonic development of mammalian neural tube defects. Prog. Neurobiol. 35:363-403.

Courchesne, C.L., and J.A. Bantle. 1985. Analysis of the activity of DNA, RNA, and protein synthesis inhibitors on *Xenopus* embryo development. Teratogen. Carcinogen. Mutagen. 5:177-193.

Dawson, D.A. 1991. Additive incidence of developmental malformation for *Xenopus* embryos exposed to a mixture of ten aliphatic carboxylic acids. Teratology 44(5):531-546.

Dawson, D.A., and J.A. Bantle. 1987. Development of a reconstituted water medium and preliminary validation of the frog embryo teratogenesis assay—*Xenopus*. J. Appl. Toxicol. 7(4):237-244.

Dawson, D.A., and T.S. Wilke. 1991a. Initial evaluation of developmental malformation as an end point in mixture toxicity hazard assessment for aquatic vertebrates. Ecotoxicol. Environ. Safety. 21(2):215-226.

Dawson, D.A., and T.S. Wilke. 1991b. Evaluation of the Frog Embryo Teratogenesis Assay: *Xenopus* (FETAX) as a model system for mixture toxicity hazard assessment. Environ. Toxicol. Chem. 10(7):941-948.

Dawson, D.A., C.A. McCormick, and J.A. Bantle. 1985. Detection of teratogenic substances in acidic mine water samples using the Frog Embryo Teratogenesis Assay—*Xenopus* (FETAX). *J. Appl. Toxicol.* 5(4):234-244.

Dawson, D.A., E.F. Stebler, S.L. Burks, and J.A. Bantle. 1988. Evaluation of the developmental toxicity of metal-contaminated sediments using short-term fathead minnow and frog embryolarval assays. *Environ. Toxicol. Chem.* 7:27-34.

Dawson, D.A., D.J. Fort, G.J. Smith, D.L. Newell, and J.A. Bantle. 1988b. Evaluation of the developmental toxicity of nicotine and cotinine with frog embryo teratogenesis assay: *Xenopus*. *Teratogen. Carcinogen. Mutagen.* 8:329-338.

DeYoung, D.J., J.A. Bantle, and D.J. Fort. 1991. Assessment of the developmental toxicity of ascorbic acid, sodium selenate, coumarin, serotonin, and 13-cis retinoic acid using FETAX. *Drug Chem. Toxicol.* 14:127-141.

Dumont, J.N., T.W. Schultz, M.V. Buchanan, and G.L. Kao. 1982. Frog embryo teratogenesis assay: *Xenopus* (FETAX)--A short-term assay applicable to complex environmental mixtures. *Government Reports Announcements and Index*. Number 22. NTIS.

Dumont, J.N., T.W. Schultz, M.V. Buchanan, and G.L. Kao. 1983. Frog Embryo Teratogenesis Assay: *Xenopus* (FETAX)—A short-term assay applicable to complex environmental mixtures. In "Short-term Bioassays in the Analysis of Complex Environmental Mixtures III." M. Waters, S. Sandhu, J. Lewtas, L. Claxton, N. Chernoff, and S. Nesnow (Eds.), Plenum, New York, NY, pp. 393-405.

Dresser, T.H., E.R. Rivera, F.J. Hoffmann, and R.A. Finch. 1992. Teratogenic assessment of four solvents using the frog embryo teratogenesis assay--*Xenopus* (FETAX). *J. Appl. Toxicol.* 12(1):49-56.

Fentem, J.H., G.E.B. Archer, M. Balls, P.A. Botham, R.D. Curren, L.K. Earl, D.J. Esdaile, H.-G. Holzhutter, and M. Liebsch. 1998. The ECVAM international validation study on *in vitro* tests for skin corrosivity. 2. Results and evaluation by the management team. *Toxicol. In Vitro* 12:483-524.

Finch, R.A., H.S. Gardner, Jr., and J.A. Bantle. 1994. Frog embryo teratogenesis assay—*Xenopus*: A nonmammalian method for developmental toxicity assessment. In: Symposium on Current Concepts and Approaches on Animal Test Alternatives, H. Salem (Ed.), pp. 297-313.

Fort, D.J., and J.A. Bantle. 1990. Analysis of the mechanism of isoniazid-induced developmental toxicity with frog embryo teratogenesis assay: *Xenopus* (FETAX). *Teratogen. Carcinogen. Mutagen.* 10:463-476.

Fort, D.J., and E.L. Stover. 1997. Assessing Ecological Hazard to Amphibian Populations. Purdue Industrial Waste Conference Proceedings, pp. 351-358

Fort, D.J., B.L. James, and J.A. Bantle. 1989. Evaluation of the developmental toxicity of five compounds with the frog embryo teratogenesis assay: *Xenopus* (FETAX) and a metabolic activation system. *J. Appl. Toxicol.* 9(6):377-388.

Fort, D.J., J.R. Rayburn, D.J. DeYoung, and J.A. Bantle. 1991. Assessing the efficacy of an Aroclor 1254-induced exogenous metabolic activation system for FETAX. *Drug. Chem. Toxicol.* 14:143-160.

Fort, D.J., J.R. Rayburn, and J.A. Bantle. 1992. Evaluation of acetaminophen-induced developmental toxicity using FETAX. *Drug Chem. Toxicol.* 15(4):329-350.

Fort, D.J., E.L. Stover, J.R. Rayburn, M. Hull, and J.A. Bantle. 1993. Evaluation of the developmental toxicity of trichloroethylene and detoxification metabolites using *Xenopus*. *Teratogen. Carcinogen. Mutagen.* 13:35-45.

Fort, D., E.L. Stover, and D. Norton. 1995. Ecological hazard assessment of aqueous soil extracts using FETAX. *J. Appl. Toxicol.* 12(3):183-191.

Fort, D.J., E.L. Stover, and J.A. Bantle. 1996. Integrated ecological hazard assessment of waste site soil extracts using FETAX and short-term fathead minnow teratogenesis assay. In: La Point, T. W., F. T. Price, and E. E. Little (Eds.). ASTM STP, 1262. Environmental Toxicology and Risk Assessment. Fourth Symposium on Environmental Toxicology and Risk Assessment. Montreal, Quebec, Canada. April 11-13, 1994. American Society for Testing and Materials, Philadelphia, pp. 93-109.

Fort, D.J., E.L. Stover, J.A. Bantle, J.R. Rayburn, M.A. Hull, R.A. Finch, D.T. Burton, S.D. Turley, D.A. Dawson, G. Linder, D. Buchwalter, M. Kumsher-King, and A.M. Gaudet-Hull. 1998. Phase III interlaboratory study of FETAX, part 2: Interlaboratory study of an exogenous metabolic activation system for Frog Embryo Teratogenesis Assay—*Xenopus* (FETAX). *Drug Chem. Toxicol.* 21:1-14.

Fort, D.J., T.L. Propst, E.L. Stover, J.C. Helgen, R. Levey, K. Gallagher, and J.G. Burkhart. 1999a. Effects of pond water, sediment, and sediment extracts from Minnesota and Vermont on early development and metamorphosis in *Xenopus*. *Environ. Toxicol. Chem.* 18(10):2316-2324.

Fort, D.J., R. Rogers, H. Copley, L. Bruning, E.L. Stover, J. Helgen, and J.G. Burkhart. 1999b. Progress toward identifying causes of mal-development induced in *Xenopus* by pond water and sediment extracts from Minnesota. *Environ. Toxicol. Chem.* 18(10):2316-2324.

Fort, D.J., R. Rogers, H. Copley, L. Bruning, E.L. Stover, and D. Rapaport. 1999c. Effect of sulfometuron methyl and nicosulfuron on development and metamorphosis in *Xenopus laevis*: Impact of purity. *Environ. Toxicol. Chem.* 18(12):2934-2940.

Fort, D.J., E.L. Stover, J.A. Bantle, J.N. Dumont, E.D. Clegg, R.A. Finch, and D.L. Danley. 1999d Evaluation of a reproductive toxicity assay using *Xenopus laevis*: Boric acid, cadmium, and ethylene glycol monomethyl ether. *J. Appl. Toxicol.* Submitted for publication.

Fort, D.J., E.L. Stover, P.L. Strong, F.J. Murray, and C.L. Keen. 1999e Chronic feeding of a low boron diet adversely affects reproduction and development in *Xenopus laevis*. *J. Nutr.* 129(11):2055-2060.

Fort, D.J., T.L. Propst, E.L. Stover, and P.L. Strong. 1999f Adverse effects from low dietary and environmental boron exposure on reproduction, development, and maturation in *Xenopus laevis*. *J. Trace Elements Exp. Med.* 12:175-185.

Fort, D.J., E.L. Stover, P.L. Strong, and F.J. Murray. 1999g Effect of boron deprivation on reproductive parameters in *Xenopus laevis*. *J. Trace Elements Exp. Med.* 12:187-204.

Fort, D.J., T.L. Propst, E.L. Stover, D.R. Farmer, and J.K. Lemen. 2000a. Assessing the predictive validity of Frog Embryo Teratogenesis Assay: *Xenopus* (FETAX). *Teratogenesis Carcinogen. Mutagen.* 20(2):87-98.

Fort, D.J., R.L. Rogers, H.F. Copley, L.A. Morgan, M.F. Miller, P.A. Clark, J.A. White, R.R. Paul, and E.L. Stover. 2000b. Preliminary validation of a short-term morphological assay to evaluate adverse effects on amphibian metamorphosis and thyroid function using *Xenopus laevis*. *J. Appl. Toxicol.* In press.

Fort, D.J., E.L. Stover, J.A. Bantle, and R.A. Finch. 2000c. Evaluation of the developmental toxicity of thalidomide using Frog Embryo Teratogenesis Assay: *Xenopus* (FETAX): Biotransformation and detoxification. *Teratogen. Carcinogen. Mutagen.* 20(1):35-47.

Friedman, J.M., and J.E. Polifka. 1994. *Teratogenic Effects of Drugs. A Resource for Clinicians (TERIS)*. Johns Hopkins University Press, Baltimore, MD. 703 pp.

Friedman, M., J.R. Rayburn, and J.A. Bantle. 1991. Developmental toxicology of potato alkaloids in the frog embryo teratogenesis assay—Xenopus (FETAX). *Food Chem. Toxicol.* 29(8):537-547.

Friedman, M., J.R. Rayburn, and J.A. Bantle. 1992. Structural relationships and developmental toxicity of Solanum alkaloids in the frog embryo teratogenesis assay--Xenopus. *J. Agric. Food Chem.* 40(9):1617-1624.

Gatlitski, T., A.J. Saldanha, C.A. Styles, E.S. Lander, and G.R. Fink. 1999. Ploidy regulation of gene expression. *Science* 285(5425):251.

Genschow, E., G. Scholz, N.A. Brown, A.H. Piersma, M. Brady, N. Cleemann, H. Huuskonen, F. Paillard, S. Bremer, and H. Spielmann. 1999. *Die Entwicklung von Prädiktionsmodellen drei in vitro Embryotoxizitätstests im Rahmen einer ECVAM Validierungsstudie* (Development of prediction models for three in vitro embryotoxicity tests which are evaluated in an ECVAM validation study). *ALTEX* 16(2):73-83.

Goldey, E.S., H.A. Tilson, and K.M. Crofton. 1995. Implications of the use of neonatal birth weight, growth, viability, and survival data for predicting developmental neurotoxicity: A survey of the literature. *Neurotoxicol. Teratol.* 17(3):313-332.

Kavlock, R.J., J.A. Greene, G.L. Kimmel, R.B. Morrissey, E. Owens, J.M. Rogers, T.W. Sadler, H.F. Stack, M.D. Waters, and F. Welsch. 1991. Activity profiles of developmental toxicity: Design considerations and pilot implementation. *Teratogenesis* 43:150-185.

Kimmel, G.L. 1990. *In vitro* assays in developmental toxicology: their potential application in risk assessment. In: *In Vitro Methods in Developmental Toxicology: Use in Defining Mechanisms and Risk Parameters*, G.L. Kimmel and D.M. Kochbar (Eds.), CRC Press, Boca Raton, FL, pp 163-173.

Kimmel, G.L., K. Smith, D.M. Kochhar, and R.M. Pratt. 1982. Overview of *in vitro* teratogenicity testing: Aspects of validation and application to screening. *Teratogen. Carcinogen. Mutagen.* 2:221-229.

Kononen, D.W., and R.A. Gorski. 1997. A method for evaluating the toxicity of industrial solvent mixtures. *Environ. Toxicol. Chem.* 16(5):968-976.

La Clair, J.J., J.A. Bantle, and J. Dumont. 1998. Photoproducts and metabolites of a common insect growth regulator produce developmental deformities in *Xenopus*. *Environ. Sci. Technol.* 32(10):1453-1461.

Luo, S.-Q., M.C. Plowman, S.M. Hopfer, and F.W. Sunderman. 1993. Embryotoxicity and teratogenicity of Cu²⁺ and Zn²⁺ for *Xenopus laevis*, assayed by the FETAX procedure. *Ann. Clin. Lab. Science* 23(2):111-120.

Morgan, M.K., P.R. Scheuerman, C.S. Bishop, and R.A. Pyles. 1996. Teratogenic potential of atrazine and 2,4-D using FETAX. *J. Toxicol. Environ. Health* 48:151-168.

National Institute for Occupational Safety and Health (NIOSH). RTECS® (Registry of Toxic Effects of Chemical Substances). On: the TOXNET® system. Internet Resource (<http://sis.nlm.nih.gov/sis1/>).

National Library of Medicine (NLM). HSDB® (Hazardous Substances Data Bank). On: the TOXNET® system. Internet Resource (<http://sis.nlm.nih.gov/sis1/>).

Nieuwkoop, P.D., and J. Faber. 1975. Normal tables of *Xenopus laevis* (Daudin), 2nd ed., North Holland Press, Amsterdam.

OECD (Organization for Economic Cooperation and Development). 1981. OECD guideline for testing of chemicals 414: Teratogenicity. OECD, Paris.

OECD (Organization for Economic Cooperation and Development). 1983. OECD guideline for testing of chemicals 415: One-generation reproduction toxicity study. OECD, Paris.

OECD (Organization for Economic Cooperation and Development). 1983. OECD guideline for testing of chemicals 416: Two-generation reproduction toxicity study. OECD, Paris.

OECD (Organization for Economic Cooperation and Development). 1995. OECD guideline for testing of chemicals 421: Reproduction/developmental toxicity screening test. OECD, Paris.

OECD (Organization for Economic Cooperation and Development). 1996. OECD guideline for testing of chemicals 422: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test. OECD, Paris.

Palmer, B.D., and S.K. Palmer. 1995. Vitellogenin induction by xenobiotic estrogens in the red-eared turtle and African clawed frog. *Environ. Health Perspect.* 103 (Supple. 4): 19-25.

Pöch, G., and D.A. Dawson. 1996. Average empirical effects of mixtures of differently acting teratogenic agents. *Arch. Complex Environ. Stud.* 8(1-2):33-39.

Propst, T.L., D.J. Fort, E.L. Stover. 1997. Evaluation of the developmental toxicity of benzo[a]pyrene and 2-acetylaminofluorene using *Xenopus*: Modes of biotransformation. *Drug Chem. Toxicol.* 20:45-61.

Rayburn, J.R., D.J. Fort, R. McNew, and J.A. Bantle. 1991. Synergism and antagonism induced by three carrier solvents with t-retinoic acid and 6-aminonicotinamide using FETAX. *Bull. Environ. Contam. Toxicol.* 46:625-632.

Rayburn, J.R., J.A. Bantle, and M. Friedman. 1994. Role of carbohydrate side chains of potato glycoalkaloids in developmental toxicology. *J. Ag. Food Chem.* 42:1511-1515.

Riggin, G.W., and T.W. Schultz. 1986. Teratogenic effects of benzoyl hydrazine on frog embryos. *Trans. Am. Microsc. Soc.* 105:197-210.

Sabourin, T.D., and R.T. Faulk. 1987. Comparative evaluation of a short-term test for developmental effects using frog embryos. In: Banbury Report 26: Developmental Toxicology: Mechanisms and Risk, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY. pp. 203-223.

Sakamoto, M.K., S. Mima, and T. Tanimura. 1992. An assay system for developmental toxicity using embryos and larvae of *Xenopus laevis*. *ALTEX* 1:172-177.

Scholz, G., I. Pohl, A. Seiler, S. Bremer, N.A. Brown, A.H. Piersma, H.G. Holzhütter, and H. Spielmann. 1998. *Ergebnisse der ersten Phase des ECVAM-Projektes zur Prävalidierung und Validierung von drei in vitro Embryotoxizitäts* (Results of the first phase of the ECVAM project "prevalidation and validation of three in vitro embryotoxicity tests"). *ALTEX* 15(1):3-8.

Schultz, T.W., and D.A. Dawson. 1995. Developmental hazard assessment with FETAX: Aerobic metabolites in bacterial transformation of naphthalene. *Bull. Environ. Contam. Toxicol.* 54:662-667.

Schuytema, G.S., A.V. Nebeker, and W.L. Griffis. 1994. Toxicity of Guthion® and Guthion® 2S to *Xenopus laevis* embryos. *Arch. Environ. Contam. Toxicol.* 27:250-255.

Schardein, J.L. 1993. Chemically Induced Birth Defects, 2nd ed. Marcel Dekker, New York.

Schwetz, B.A., and M.W. Harris. 1993. Developmental toxicology: Status of the field and contribution of the national toxicology program. *Environ. Health Perspectives* 100:269-282.

Schwetz, B.A., R.E. Morissey, F. Welsch, and R.A. Kavlock. 1991. *In vitro* teratology. *Environ. Health Perspect.* 94:265-268.

Shepard, T.H. 1995. Catalog of Teratogenic Agents. 8th ed., John Hopkins University Press, Baltimore, MD.

Smith, M.K., G.L. Kimmel, D.M. Kochhar, T.H. Shepard, S.P. Spielberg, and J.G. Wilson. 1983. A selection of candidate compounds for *in vitro* teratogenesis test validation. *Teratogen. Carcinog. Mutagen.* 3:461-480.

Spielman, H. 1998. Reproduction and development. *Environ. Health Perspect.* 106:571-576.

Sunderman, Jr., F.W., M.C. Plowman, and S.M. Hopfer. 1991. Embryotoxicity and teratogenicity of cadmium chloride in *Xenopus laevis*, assayed by the FETAX procedure. *Ann. Clin. Lab. Science* 21(6):381-391.

Szabo, K.T. 1989. Congenital Malformations in Laboratory and Farm Animals. Academic Press, Inc., New York, NY.

Tanumiura, T., and M.K. Sakamoto. 1995. Alternatives to animal experiments in developmental toxicity tests. *Acta Med. Kinki Univ.* 20(3):135-148.

U.S. Environmental Protection Agency. 1991. Guidelines for Developmental Toxicity Risk Assessment. *Federal Register* 56(231):63798-63826.

U.S. Food and Drug Administration. 1994. International Conference on Harmonisation; Guideline on Detection of Toxicity to Reproduction for Medicinal Products; Availability; Notice. *Federal Register* 59(140):48749.

U.S. Food and Drug Administration. 1993. Redbook II. Toxicological Principles for the Safety Assessment of Direct Food Additives and Color Additives Used in Food.

Vismara, C., G. Bernardini, P. Bonfanti, A. Colombo, and M. Camatini. 1993. The use of *in vitro* fertilization in the Frog Embryo Teratogenesis Assay in Xenopus (FETAX) and its applications to ecotoxicology. *Sci. Total Environ. Suppl. Pt. 1*:787-790.

Vogel, G. 1999. Frog is a prince of a new model organism. *Science* 285(5424):25.

Walker, C., K. Kaiser, W. Klein, L. Lagadic, D. Peakall, S. Sheffield, T. Soldan, and M. Yasuno. 1998. 13th Meeting of the Scientific Group on Methodologies for the Safety Evaluation of Chemicals (SGOMSEC): Alternative Testing Methodologies for Ecotoxicity. *Environ. Hlth. Perspect. 106(S2)*:441-451.

Zaga, A., E.E. Little, C.F. Rabeni, and M.R. Ellersieck. 1998. Photoenhanced toxicity of a carbamate insecticide to early life stage anuran amphibians. *Environ. Toxicol. Chem.* 17(12):2543-2553.